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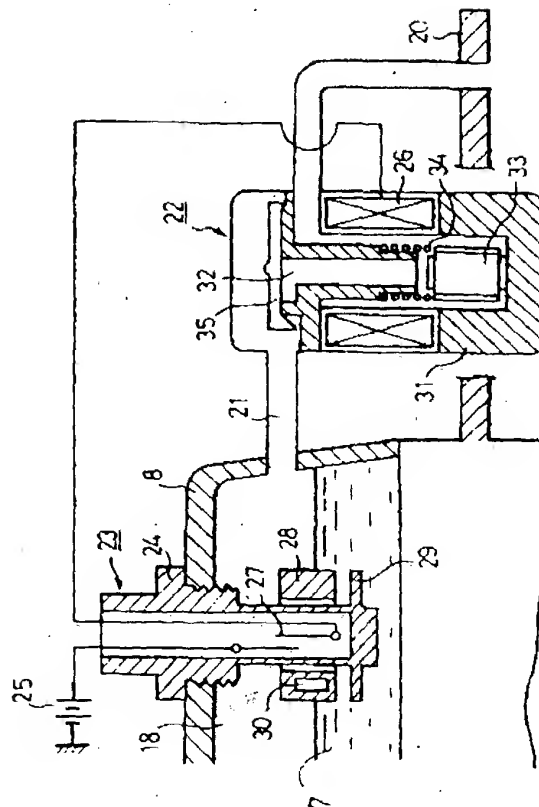
APPLICATION DATE : 12-05-83
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APPLICANT : HINO MOTORS LTD;

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TITLE : BLOW-BYE GAS RETURNING DEVICE



ABSTRACT : PURPOSE: To prevent lubricating oil from intruding into an intake tube from a returning passage by closing an opening/closing valve when the quantity of lubricating oil in a sump is detected to be greater than the predetermined value by the aid of an oil detector installed in the sump.

CONSTITUTION: If the lubricating oil level in a sump 7 becomes higher than the predetermined one, a float 28 goes upward, turning a switch 27 ON being attracted by a magnet 30 housed in it. Thus, a solenoid 26 is excited, and a valve body 33 is displaced to close a passage 32. As a result, blow-bye gas is not allowed to go through a returning passage 21, while the blow-bye gas in a crank case finds it difficult to go up in the passage to eventually enter a blow-bye gas chamber 18. Accordingly lubricating oil in the sump 7 returns to an oil pan via a passage 17, thereby lowering the oil level in the sump 7. Next, when the float 28 goes down, the switch 27 is opened and an opening/closing valve 22, too, is opened thereby letting the blow-bye gas flow again through the returning passage 21. With this contrivance, both carbon sticking to intake tubes or intake valves and increase in lubricating oil consumption can be restricted.

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